Config Parameters and Context Parameters

What is Config Parameters?

The list of parameters that are defined specific to the servlet

What is Context Parameters?

The list of parameters that are allowed to access all servlets available in web application

How to define Context Parameters?

(global parameters to all servlets)

Step 1: Open web.xml

Step 2: define <context-param> tag as a child tag to <web-app>

Step 3: define <param-name> as a child tag to <context-param>. This param name acts like a Key to retrieve the associated value in servlet

Step 4: define <param-value> as a child tag to <context-param>. This param value acts like a value associated to the key

Ex:

<context-param>

<param-name>institutename</param-name>

<param-value>SSSIT</param-value>

</context-param>

<context-param>

<param-name>coursename</param-name>

<param-value>ADVANCED JAVA</param-value>

</context-param>

How to use the above context parameters in any servlet?

Step 1: get the reference of ServletContext

ServletContext context = getServletContext();

Step 2: use getInitParameter to get the value associated to the key defined in web.xml

pw.println("<h2>" + context.getInitParameter("institutename") + "</h2>");

pw.println("<h3>" + context.getInitParameter("coursename") + "</h3>");

Servlet Config

Contains servlet specific configuration

How to define the servlet config parameters in web.xml?

Step 1: define <init-param> tag inside the servlet tag

Step 2: define <param-name> as a child tag to <init-param>. This param name acts like a Key to retrieve the associated value in servlet

Step 3: define <param-value> as a child tag to <init-param>. This param value acts like a value associated to the key

<servlet>

<description></description>

<display-name>RetreiveServlet</display-name>

<servlet-name>RetreiveServlet</servlet-name>

<servlet-class>com.sssit.webparams.servlets.RetreiveServlet</servlet-class>

<init-param>

<param-name>selectsqlquery</param-name>

<param-value>Select Query</param-value>

</init-param>

</servlet>

How to get the config parameters to servlet?

Step 1: get the reference of ServletConfig using getServletConfig.

ServletConfig config = getServletConfig();

Step 2: use getInitParameter to get the value associated to the key defined in web.xml using config reference variable

pw.println("<h4>" + config.getInitParameter("insertsqlquery") + "</h4>");

Program

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>

<display-name>WebXmlParamDemo</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<display-name>InsertServlet</display-name>

<servlet-name>InsertServlet</servlet-name>

<servlet-class>com.sssit.webparams.servlets.InsertServlet</servlet-class>

<init-param>

<param-name>insertsqlquery</param-name>

<param-value>Insert Query</param-value>

</init-param>

</servlet>

<servlet-mapping>

<servlet-name>InsertServlet</servlet-name>

<url-pattern>/insert</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>RetreiveServlet</display-name>

<servlet-name>RetreiveServlet</servlet-name>

<servlet-class>com.sssit.webparams.servlets.RetreiveServlet</servlet-class>

<init-param>

<param-name>selectsqlquery</param-name>

<param-value>Select Query</param-value>

</init-param>

</servlet>

<servlet-mapping>

<servlet-name>RetreiveServlet</servlet-name>

<url-pattern>/retreive</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>UpdateServlet</display-name>

<servlet-name>UpdateServlet</servlet-name>

<servlet-class>com.sssit.webparams.servlets.UpdateServlet</servlet-class>

<init-param>

<param-name>updatesqlquery</param-name>

<param-value>Update Query</param-value>

</init-param>

</servlet>

<servlet-mapping>

<servlet-name>UpdateServlet</servlet-name>

<url-pattern>/update</url-pattern>

</servlet-mapping>

<context-param>

<param-name>institutename</param-name>

<param-value>SSSIT</param-value>

</context-param>

<context-param>

<param-name>coursename</param-name>

<param-value>ADVANCED JAVA</param-value>

</context-param>

</web-app>

**package** com.sssit.webparams.servlets;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletConfig;

**import** javax.servlet.ServletContext;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class InsertServlet

\*/

**public** **class** InsertServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** InsertServlet() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#service(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** service(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

pw.println("<h1> Insert Servlet </h1>");

ServletContext context = getServletContext();

pw.println("<h2>" + context.getInitParameter("institutename") + "</h2>");

pw.println("<h3>" + context.getInitParameter("coursename") + "</h3>");

ServletConfig config = getServletConfig();

pw.println("<h4>" + config.getInitParameter("insertsqlquery") + "</h4>");

}

}

**package** com.sssit.webparams.servlets;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletConfig;

**import** javax.servlet.ServletContext;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class RetreiveServlet

\*/

**public** **class** RetreiveServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** RetreiveServlet() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#service(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** service(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

pw.println("<h1> Retrieve Servlet </h1>");

ServletContext context = getServletContext();

pw.println("<h2>" + context.getInitParameter("institutename") + "</h2>");

pw.println("<h3>" + context.getInitParameter("coursename") + "</h3>");

ServletConfig config = getServletConfig();

pw.println("<h4>" + config.getInitParameter("selectsqlquery") + "</h4>");

}

}

**package** com.sssit.webparams.servlets;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletConfig;

**import** javax.servlet.ServletContext;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class UpdateServlet

\*/

**public** **class** UpdateServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** UpdateServlet() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#service(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** service(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

pw.println("<h1> Update Servlet </h1>");

ServletContext context = getServletContext();

pw.println("<h2>" + context.getInitParameter("institutename") + "</h2>");

pw.println("<h3>" + context.getInitParameter("coursename") + "</h3>");

ServletConfig config = getServletConfig();

pw.println("<h4>" + config.getInitParameter("updatesqlquery") + "</h4>");

}

}